

**Mechanical Engineering Option Requirements**  
**Advanced Engineering Electives**  
**June 2023**

**List of Approved Courses:**

ME72ab\*, ME90abc\*, ME/EE/EST117, ME119, ME/CS/EE129, ME/CS/EE133, ME/CS/EE134, ME/CS/EE 169  
CS/EE/ME75abc\*, ME/CE/Ge/ESE 146  
Ae/APh/CE/ME101, Ae/AM/CE/ME102, Ae103ab, Ae105abc, Ae/ME118, Ae/ME120, Ae121abc, Ae/CE165,  
Ae/CE221, AM/CE151  
APh/MS105, APh109, APh/Ph115, APh/PH/Ae116  
CE160, Ae/CE221  
ChE103, ChE105, ChE/BE/MedE112  
CDS 110, CDS112, CDS131, CDS231, CDS232, CDS233  
EE110  
E/ME/MedE 105  
E/SEC 103  
MS115, MS/ME/MedE116

**Option 1: Pre-approved tracks:**

Choose at least 27 units from any one track (depth); and at least 9 units each from two other tracks (breadth):

- Design, Systems, and Mechatronics: ME72\*+, CS/EE/ME75\*+, E/SEC 103, E/ME/MedE105ab, Ae105, ChE112
- Dynamics and Control: Ae103, AM151, CDS110, CDS112, ChE105, CDS131, CDS231, CDS232, CDS233
- Fluids and Transport: Ae/APh/CE/ME101, ChE103, APh115, APh116, ME/CE/Ge/ESE 146
- Robotics: ME/CS/EE129, ME/CS133ab, ME/CS/EE134, EE110, ME/CS/EE 169
- Solids and Materials: Ae/AM/CE/ME102abc, MS115, MS/ME/MedE116, AE165ab, APh109
- Structures: CE160, Ae/CE221
- Thermodynamics and Energy: ME/EE/EST117, Ae/ME118, ME119, Ae/ME120, APh/MS105, Ae121
- Thesis: ME90\*+

**Option 2:** Choose 45 units from the list of approved courses subject to the approval of the advisor and the option representative.

Note: The list of approved courses will be updated periodically. If you want to substitute a class not listed here (for example from study abroad), you must obtain the approval of the option representative.

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\*If ME72, ME75, and /or ME90 are chosen, they cannot be used to fulfill the capstone design requirement + ME75 and ME90 must be taken for at least 27 units (i.e. all three quarters) in order to be counted as elective units for depth.